
Assignments Module – 2 (Selenium IDE)

1] What is Automation Testing?

Automation Testing is the process of using software tools to automatically run test cases on an application to check if it works correctly.

i) Definition:

Automation testing means using tools to test software instead of testing it manually.

ii) **Example Tools:** Selenium, TestNG, JUnit, QTP.

iii) Why Use It?

- Saves time
- Reduces human error
- Can run tests repeatedly (regression testing)

2] Which Are The Browsers Supported By Selenium Ide?

Selenium IDE supports the following browsers:

- Google Chrome
- Mozilla Firefox

Note:

- ✓ Selenium IDE works as a **browser extension**, so it needs to be installed in Chrome or Firefox.
- ✗ It does **not support** browsers like Safari, Edge, or Internet Explorer.

3] What are the benefits of Automation Testing?

- **Faster Testing:** Tests run quickly, saving time.
- **Repeatable:** You can run the same test again and again easily.
- **Accurate:** No tiredness or mistakes like manual testing.

- **More Test Coverage:** You can test more features in less time.
- **Saves Time & Cost:** Especially for big projects.
- **Runs Anytime:** Tests can run at night or anytime automatically.

4] What are the advantages of Selenium?

1. Free Tool:

- Selenium is open-source -- no need to pay.

2. Works on All Browsers:

- Supports Chrome, Firefox, Safari, Edge.

3. Supports Many Languages:

- Like Java, Python, C#, JavaScript.

4. Runs on Any OS:

- Works on Windows, Mac, Linux.

5. Easy to Combine with Other Tools:

- Like TestNG, Jenkins, Maven, etc.

6. Best for Web Testing:

- Perfect for testing websites

7. Supports Parallel Testing:

- Run tests on multiple browsers at once using Selenium Grid (parallel testing).

5] Why testers should opt for Selenium and not QTP?

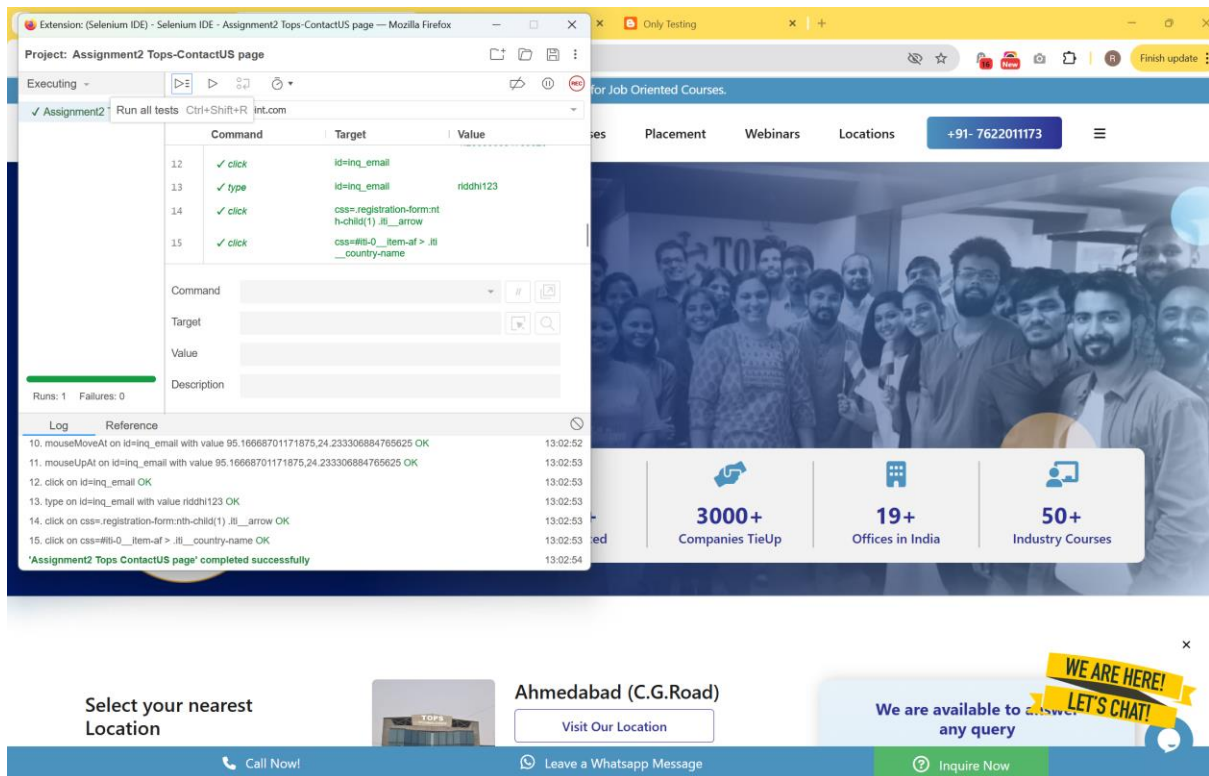
Feature	Selenium	QTP / UFT
Cost	Free & Open Source	Paid (License Required)

Browser Support	Chrome, Firefox, Safari, Edge, Opera	Mostly Internet Explorer
OS Support	Windows, Mac, Linux	Windows Only
Language Support	Java, Python, C#, JavaScript, etc.	Only VBScript
Web Testing	Best for Web Applications	Supports both Web & Desktop
Tool Integration	Easy with Jenkins, Maven, Git, etc.	Limited integration options
Parallel Testing	Yes (with Selenium Grid)	No built-in support
Cross-Browser Testing	Yes	Limited
Flexibility	Very Flexible and Customizable	Less Flexible
Community Support	Large, Active, Lots of Help Online	Small, Less Active

Conclusion:

- ✓ **Choose Selenium** if you want a **free, fast, flexible, and powerful** tool for testing web applications.
- ✗ **QTP/UFT** is limited, costly, and mainly for Windows + VBScript users.

6] To validate the tops technologies website Contact us page and enter your friend detail at last “Send Inquiry” <https://www.tops-int.com/contact-us>



- Uploaded file in “[Assignment2 Tops-ContactUS page.side](#)” GitHub.

7] To validate the tops technologies website Contact us page and enter your friend detail at last “Send Inquiry”
<https://www.topsint.com/contact-us/>

1. To use assert
2. To use click and wait
3. To use locators
4. To use other command

Extension: (Selenium IDE) - Selenium IDE - Using command Assignment2 ContactUS page — Mozilla Firefox

Project: Using command Assignment2 ContactUS page

Executing -

✓ Untitled

https://www.tops-int.com/contact-us

	Command	Target	Value
1	✓ open	/	
2	✓ click	id=inq_name	
3	✓ type	name=name	Riddhi
4	✓ click	id=inq_email	
5	✓ type	xpath=//*[@id="inq_email"]	riddhi123@gmail.com
6	✓ click	id=inq_contact	
7	✓ type	name=contact	9123412378
8	✓ wait for element visible	linkText=Send Inquiry	3000
9	✓ assert title	Top Computer Courses in India – Learn with TOPS Technologies	

Runs: 1 Failures: 0

Log Reference

Running 'Untitled'

- open on / OK 13:08:33
- click on id=inq_name OK 13:08:34
- type on name=name with value Riddhi OK 13:08:34
- click on id=inq_email OK 13:08:36
- type on xpath=//*[@id="inq_email"] with value riddhi123@gmail.com OK 13:08:37
- click on id=inq_contact OK 13:08:37
- type on name=contact with value 9123412378 OK 13:08:38
- waitForElementVisible on linkText=Send Inquiry with value 3000 OK 13:08:38
- assertTitle on Top Computer Courses in India – Learn with TOPS Technologies OK 13:08:39

'Untitled' completed successfully 13:08:39

https://www.tops-int.com/contact-us			
	Command	Target	Value
1	open	/	
2	click	id=inq_name	
3	type	name=name	Riddhi
4	click	id=inq_email	
5	type	xpath=//*[@id="inq_email"]	riddhi123@gmail.com
6	click	id=inq_contact	
7	type	name=contact	9123412378
8	wait for element visible	linkText=Send Inquiry	3000
9	assert title	Top Computer Courses in India – Learn with TOPS Technologies	

- Uploaded file in [“Using command Assignment2 ContactUS page.side”](#) GitHub.

Assignments Module – 4 (Selenium Webdriver)

1] W.A.J.Script for Locating links by linkText() and partialLinkText()

```
package Assignment.Script;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class LocatingLinkPartialLink {

    public static void main(String[] args) throws
InterruptedException {
        // TODO Auto-generated method stub

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\\\pursh
\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
\\chromedriver_137.exe");

        WebDriver driver = new ChromeDriver();

        driver.get("https://techbeamers.com/practice-test-
login/");

        //linkText function locating Webpage [a href] link text:
Same linktext needed
        WebElement link =
driver.findElement(By.linkText("TechBeamers.com"));
        System.out.println("TechBeamers.com Link Text:
"+link.getAttribute("href"));

        //partialLinkText function locating Webpage [a href] link
text: Allowed half linkText
        WebElement Parlink =
driver.findElement(By.partialLinkText("TechBeamer"));
        System.out.println("TechBeamers.com Partial Link Text:
"+Parlink.getAttribute("href"));

    }
}
```

Output:



The screenshot shows the Eclipse IDE console with several tabs at the top: Problems, Javadoc, Declaration, Console, Progress, TestNG, and Debug. The console output includes the following text:

```
<terminated> LocatingLinkPartialLink [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-091
Aug 05, 2025 1:34:27 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 05, 2025 1:34:27 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.101. You may need to include a dependency on
TechBeamers.com Link Text: https://techbeamers.com/
TechBeamers.com Partial Link Text: https://techbeamers.com/
```

2] W.A.J. Script for Selecting multiple items in a drop dropdown

```
package Assignment.Script;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;

public class MultiSelectDemo {
    public static void main(String[] args) throws
    InterruptedException {
        // Set path for ChromeDriver (if not in PATH)

        System.setProperty("webdriver.chrome.driver", "C:\\Users\\pursh\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\test\\java\\webdriver\\
\\chromedriver_137.exe");

        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();

        // Open test page with multi-select dropdown
        driver.get("https://demoqa.com/select-menu");

        // Locate multi-select dropdown
        WebElement multiSelect = driver.findElement(By.id("cars"));

        // Create Select object
        Select select = new Select(multiSelect);

        // Check if dropdown supports multiple selection
        if (select.isMultiple()) {
            // Select multiple options
```

```

        select.selectByVisibleText("Volvo");
        select.selectByVisibleText("Saab");
        Thread.sleep(2000);

        // Deselect one item
        select.deselectByVisibleText("Volvo");
        Thread.sleep(2000);

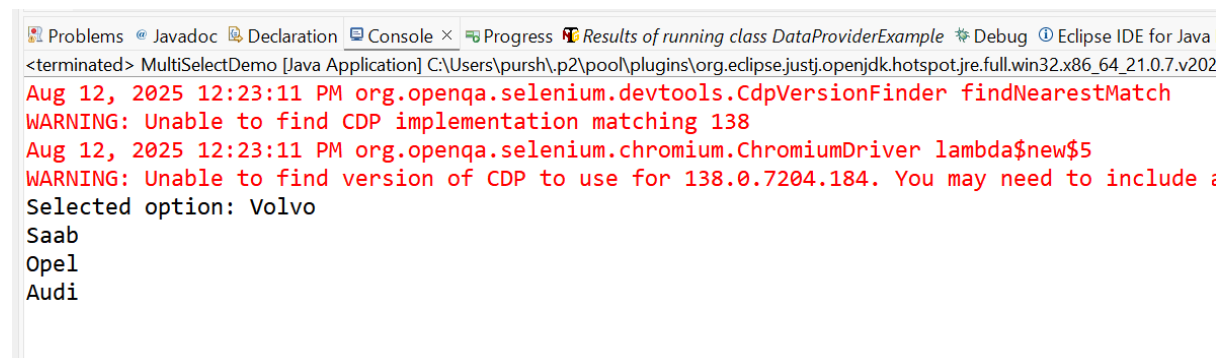
        // Deselect all
        // select.deselectAll();

    } else {
        System.out.println("This dropdown does not support
multiple selection.");
    }
    System.out.println("Selected option:
"+multiSelect.getText());

    //driver.quit();
}
}

```

Output:



```

Problems  Javadoc  Declaration  Console x  Progress  Results of running class DataProviderExample  Debug  Eclipse IDE for Java
<terminated> MultiSelectDemo [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v202
Aug 12, 2025 12:23:11 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 12, 2025 12:23:11 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include :
Selected option: Volvo
Saab
Opel
Audi

```

3] W.A.J. script to use different methods to manage the windows-alerts and pop ups.

```

package AlertBox;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class AlertConfirmPrompt {

```



```

    public static void main(String[] args) throws
InterruptedException {
        // TODO Auto-generated method stub

        String path=System.getProperty("user.dir");
        System.out.println(path);
        String fullpath=
path+"\\src\\main\\java\\webdriver\\chromedriver_137.exe";
        System.out.println("Full path: "+ fullpath);
        System.getProperty("webdriver.chrome.driver"+fullpath);

        WebDriver driver=new ChromeDriver();

        //Open local HTML file or online page
        driver.get("https://the-
internet.herokuapp.com/javascript_alerts");

        //1. basic alertbox

        driver.findElement(By.xpath("//*[@id=\"content\"]/div/ul/li[1]
/button")).click();
        System.out.println("Alert Text
"+driver.switchTo().alert().getText());
        driver.switchTo().alert().accept(); //ok button

        //2. Confirm alertbox

        driver.findElement(By.xpath("//*[@id=\"content\"]/div/ul/li[2]
/button")).click();
        System.out.println("Alert Text
"+driver.switchTo().alert().getText());
        driver.switchTo().alert().dismiss(); //cancel

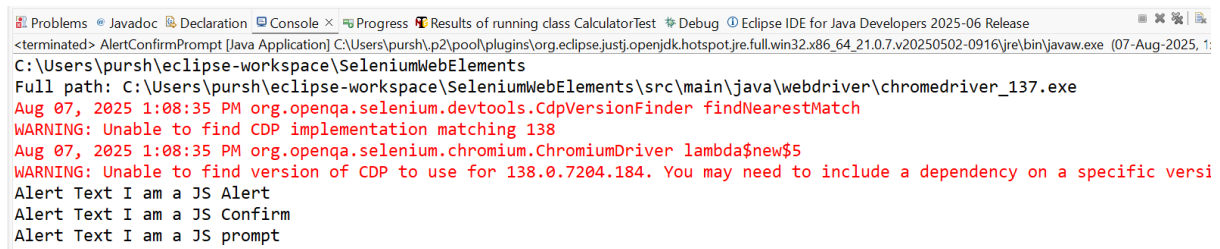
        //3. Prompt

        driver.findElement(By.xpath("//*[@id=\"content\"]/div/ul/li[3]
/button")).click();
        System.out.println("Alert Text
"+driver.switchTo().alert().getText());
        driver.switchTo().alert().sendKeys("Hello");
        Thread.sleep(5000);
        driver.switchTo().alert().accept(); //OK button

    }
}

```

Output:



```

Problems Javadoc Declaration Console Progress Results of running class CalculatorTest Debug Eclipse IDE for Java Developers 2025-06 Release
<terminated> AlertConfirmPrompt [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe (07-Aug-2025, 1:
C:\Users\pursh\eclipse-workspace\SeleniumWebElements
Full path: C:\Users\pursh\eclipse-workspace\SeleniumWebElements\src\main\java\webdriver\chromedriver_137.exe
Aug 07, 2025 1:08:35 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 07, 2025 1:08:35 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on a specific versi
Alert Text I am a JS Alert
Alert Text I am a JS Confirm
Alert Text I am a JS prompt

```

4] W.A.J.script to register your self in Gmail.

```
package Assignment.Script;
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;
```

```
public class GmailRegister {
    public static void main(String[] args) throws
    InterruptedException {
        // Set path to ChromeDriver
```

```
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\pursh
\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
\\chromedriver_137.exe");
```

```
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
```

```
        // Open Gmail signup page
        driver.get("https://accounts.google.com/signup");
```

```
        // Wait for page to load
        Thread.sleep(2000);
```

```
        // Fill in first name
        driver.findElement(By.id("firstName")).sendKeys("Riddhi");
```

```
        // Fill in last name
        driver.findElement(By.id("lastName")).sendKeys("Lakhani");
```

```

        WebElement nextBtn =
driver.findElement(By.xpath("//span[text()='Next']/parent::button"))
;
        nextBtn.click();

        Thread.sleep(3000);

        // Month
        WebElement monthDropdown =
driver.findElement(By.id("month"));
        monthDropdown.click();

driver.findElement(By.xpath("//*[@id=\"month\"]/div/div[2]/ul/li[5]"
)).click();

        // Day
driver.findElement(By.id("day")).sendKeys("21");

        // Year
driver.findElement(By.id("year")).sendKeys("2000");

        // Gender dropdown
driver.findElement(By.id("gender")).click();

driver.findElement(By.xpath("//*[@id=\"gender\"]/div/div[2]/ul/li[1]"
)).click();

        WebElement nextBtn1 =
driver.findElement(By.xpath("//span[text()='Next']/parent::button"))
;
        nextBtn1.click();

        Thread.sleep(3000);

        //Account choose
driver.findElement(By.xpath("//*[@id=\"yDmH0d\"]/c-
wiz/main/div[2]/div/div/div/form/span/section/div/div/div[1]/div[1]/
div/div[3]")).click();

driver.findElement(By.xpath("//input[@name=\"Username\"]")).sendKeys
("riddhiselenium21");

        WebElement nextBtn2 =
driver.findElement(By.xpath("//span[text()='Next']/parent::button"))
;
        nextBtn2.click();

        Thread.sleep(2000);

```

```

        // Enter password

driver.findElement(By.name("Passwd")).sendKeys("Riddhi@123");

        // Confirm password

driver.findElement(By.name("PasswdAgain")).sendKeys("Riddhi@123");

        driver.findElement(By.id("selectionc26")).click();

        // Click Next
        WebElement nextBtn3 =
driver.findElement(By.xpath("//span[text()='Next']/parent::button"))
;
        nextBtn3.click();

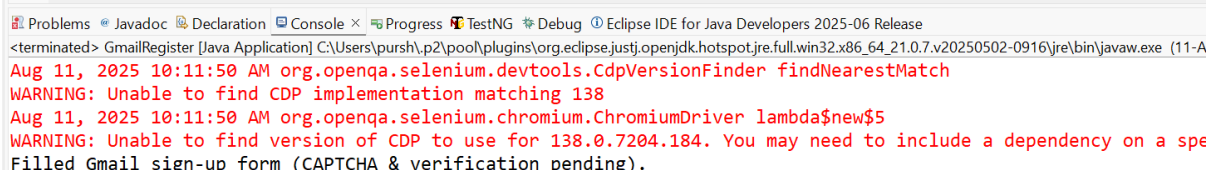
        // Note: From this point, CAPTCHA and phone verification
appear – can't be bypassed
        Thread.sleep(5000);

        System.out.println("Filled Gmail sign-up form (CAPTCHA &
verification pending).");

        // Close browser
        //driver.quit();
    }
}

```

Output:



```

Problems  Javadoc  Declaration  Console ×  Progress  TestNG  Debug  Eclipse IDE for Java Developers 2025-06 Release
<terminated> GmailRegister [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe (11-A
Aug 11, 2025 10:11:50 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 10:11:50 AM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on a spe
Filled Gmail sign-up form (CAPTCHA & verification pending).

```

5] W.A.J. Script To perform the radio button to select one by one in loop <http://demo.guru99.com/test/radio.html>

```

package Assignment.Script;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

```

```

import java.util.List;

public class RadioButtonLoop {
    public static void main(String[] args) throws
    InterruptedException {
        // Set path to ChromeDriver

System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pursh\\ecli
pse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
\\chromedriver_137.exe");

        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();

        // Open the demo page
        driver.get("http://demo.guru99.com/test/radio.html");

        // Find all radio buttons with the same name 'webform'
        List<WebElement> radioButtons =
driver.findElements(By.name("webform"));

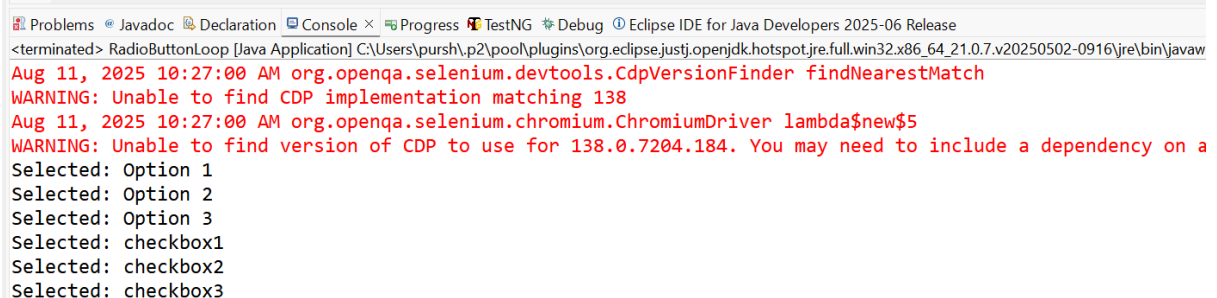
        // Loop through each radio button
        for (WebElement radio : radioButtons) {
            // Click the radio button
            radio.click();

            // Print which one is selected
            System.out.println("Selected: " +
radio.getAttribute("value"));

            // Wait to see selection (optional)
            Thread.sleep(1000);
        }
        // Close browser
        //driver.quit();
    }
}

```

Output:



The screenshot shows the Eclipse IDE interface with the 'Console' tab selected. The output displays the following information:

- Problems, Javadoc, Declaration, Console, Progress, TestNG, Debug, Eclipse IDE for Java Developers 2025-06 Release
- <terminated> RadioButtonLoop [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw
- Aug 11, 2025 10:27:00 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
- WARNING: Unable to find CDP implementation matching 138
- Aug 11, 2025 10:27:00 AM org.openqa.selenium.chromium.ChromiumDriver lambda\$new\$5
- WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on a
- Selected: Option 1
- Selected: Option 2
- Selected: Option 3
- Selected: checkbox1
- Selected: checkbox2
- Selected: checkbox3

6] W.A.J. script To write the script for image of logo facebook using xpath.

```
package Assignment.Script;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class FacebookLogo {
    public static void main(String[] args) {
        // Set path to ChromeDriver

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pursh\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
\\chromedriver_137.exe");

        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();

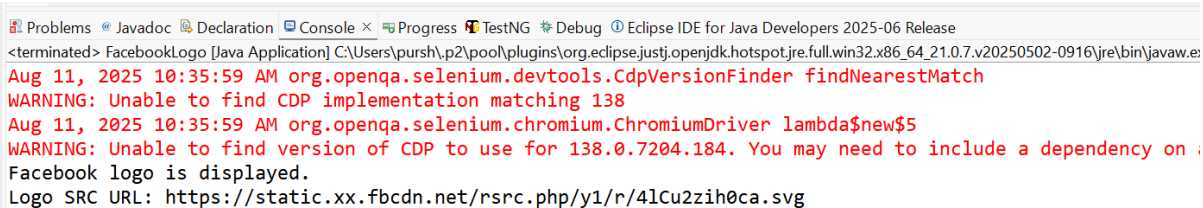
        // Open Facebook login page
        driver.get("https://www.facebook.com/");

        // Locate the logo image using XPath
        WebElement logo =
driver.findElement(By.xpath("//img[@alt='Facebook']"));

        // Verify if logo is displayed
        if (logo.isDisplayed()) {
            System.out.println("Facebook logo is displayed.");
            // Print the image src attribute
            System.out.println("Logo SRC URL: " +
logo.getAttribute("src"));
        } else {
            System.out.println("Facebook logo is NOT displayed.");
        }

        // Close browser
        //driver.quit();
    }
}
```

Output:



```

Problems Javadoc Declaration Console × Progress TestNG Debug Eclipse IDE for Java Developers 2025-06 Release
<terminated> FacebookLogo [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe
Aug 11, 2025 10:35:59 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 10:35:59 AM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on :
Facebook logo is displayed.
Logo SRC URL: https://static.xx.fbcdn.net/rsrc.php/y1/r/4lCu2zih0ca.svg

```

7] W.A.J. Script To write a script for drop down.

<http://demo.guru99.com/test/newtours/register.php>

```
package Assignment.Script;
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;
```

```
public class DropdownExample {
    public static void main(String[] args) throws
    InterruptedException {
        // Set path to ChromeDriver
```

```
System.setProperty("webdriver.chrome.driver", "C:\\Users\\pursh\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
\\chromedriver_137.exe");
```

```
    WebDriver driver = new ChromeDriver();
    driver.manage().window().maximize();
```

```
    // Open the demo page
```

```
driver.get("http://demo.guru99.com/test/newtours/register.php");
```

```
    // Locate the Country dropdown
    WebElement countryDropdown =
    driver.findElement(By.name("country"));
```

```
    // Create Select object
    Select countrySelect = new Select(countryDropdown);
```

```
    // Select by visible text
    countrySelect.selectByVisibleText("INDIA");
```

```

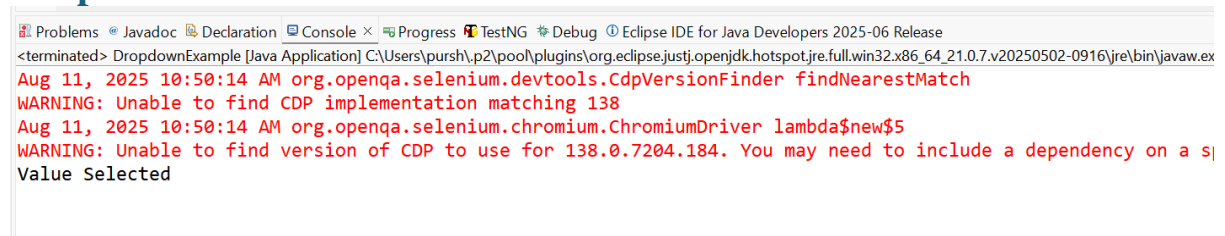
Thread.sleep(2000);

// Select by index (optional)
countrySelect.selectByIndex(10); // Example: ANGUILLA
Thread.sleep(2000);

// Select by value (optional)
countrySelect.selectByValue("AUSTRALIA");
Thread.sleep(2000);
System.out.println("Value Selected");
// Close browser
//driver.quit();
}
}

```

Output:



```

Problems Javadoc Declaration Console × Progress TestNG Debug Eclipse IDE for Java Developers 2025-06 Release
<terminated> DropdownExample [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe
Aug 11, 2025 10:50:14 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 10:50:14 AM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on a s
Value Selected

```

8] W.A.J. Script To use Mouse and Keyboard event using Action class

1.Mouse Hover Event

```

package Assignment.Script;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;

public class MouseHover {
    public static void main(String[] args) throws
    InterruptedException {
        // Set ChromeDriver path

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pursh\\ecli
        pse-
        workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
        \\chromedriver_137.exe");

        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
    }
}

```



```

// Open the website
driver.get("https://demo.guru99.com/test/newtours/");

// Before Hover - Just open the page
System.out.println("Before hover - Menu is in normal
state");

// Locate the menu element (e.g., "Home" link)
WebElement menu = driver.findElement(By.LinkText("Home"));

// Create Actions class object
Actions action = new Actions(driver);

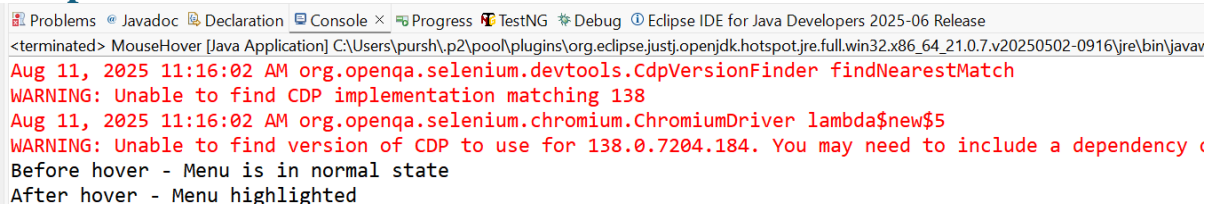
// Perform mouse hover
action.moveToElement(menu).perform();
System.out.println("After hover - Menu highlighted");

// Wait to see the hover effect
Thread.sleep(3000);

//driver.quit();
}
}

```

Output:



```

Problems Javadoc Declaration Console × Progress TestNG Debug Eclipse IDE for Java Developers 2025-06 Release
<terminated> MouseHover [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javav
Aug 11, 2025 11:16:02 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 11:16:02 AM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency (
Before hover - Menu is in normal state
After hover - Menu highlighted

```

2. Keyboard event

```

package Assignment.Script;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;

public class KeyboardEvent {
    public static void main(String[] args) throws
InterruptedException {

```

```

// Set path to ChromeDriver

System.setProperty("webdriver.chrome.driver", "C:\\Users\\pursh\\ecli
pse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
\\chromedriver_137.exe");

WebDriver driver = new ChromeDriver();
driver.manage().window().maximize();

// Open a test page
driver.get("https://www.facebook.com/");

// Locate the "Email or Phone" input box
WebElement emailBox = driver.findElement(By.id("email"));

// Create Actions object
Actions actions = new Actions(driver);

// Type HELLO in uppercase (SHIFT + hello)
actions.keyDown(Keys.SHIFT).sendKeys(emailBox,
"hello").keyUp(Keys.SHIFT).perform();

// Select all text (CTRL + A) and right-click

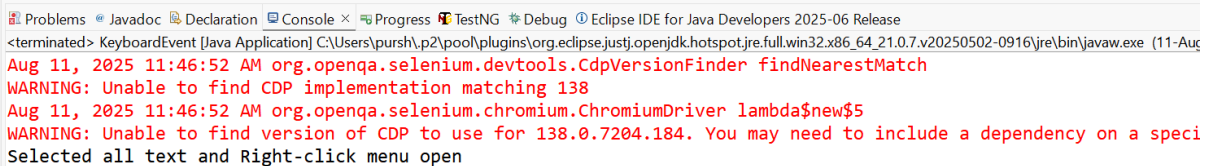
actions.keyDown(Keys.CONTROL).sendKeys("a").keyUp(Keys.CONTROL).perf
orm();
actions.contextClick(emailBox).perform();
System.out.println("Selected all text and Right-click menu
open");

// Wait to see the effect
Thread.sleep(3000);

//driver.quit();
}
}

```

Output:



```

Problems Javadoc Declaration Console × Progress TestNG Debug Eclipse IDE for Java Developers 2025-06 Release
<terminated> KeyboardEvent [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe (11-Aug
Aug 11, 2025 11:46:52 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 11:46:52 AM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on a speci
Selected all text and Right-click menu open

```

9] W.A.J. Script How to handled Alert in selenium

http://demo.guru99.com/test/delete_customer.php

```
package Assignment.Script;

import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class HandleAlert {
    public static void main(String[] args) throws
    InterruptedException {
        // Set ChromeDriver path

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pursh\\ecli
        pse-
        workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
        \\chromedriver_137.exe");

        // Launch browser
        WebDriver driver = new ChromeDriver();

        // Open URL

        driver.get("http://demo.guru99.com/test/delete_customer.php");

        // Enter Customer ID
        driver.findElement(By.name("cusid")).sendKeys("53920");

        // Click Submit
        driver.findElement(By.name("submit")).click();

        // Switch to Alert
        Alert alert = driver.switchTo().alert();

        // Get alert message
        String alertMessage = alert.getText();
        System.out.println("Alert message: " + alertMessage);

        // Accept the alert (click OK)
        alert.accept();

        // Wait to see second alert (confirmation)
        Thread.sleep(2000);

        // Handle second alert
```

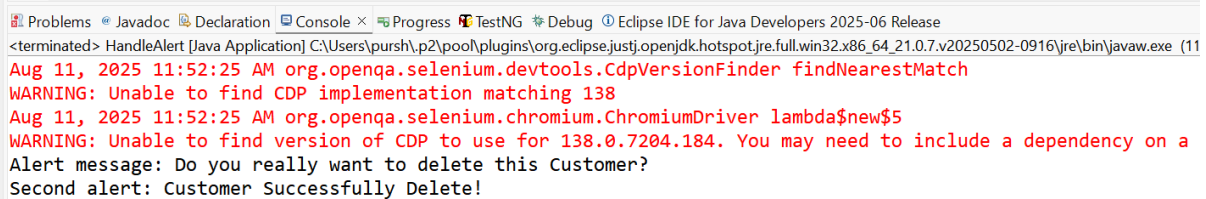
```

        Alert secondAlert = driver.switchTo().alert();
        System.out.println("Second alert: " +
secondAlert.getText());
        secondAlert.accept();

        // Close browser
        //driver.quit();
    }
}

```

Output:



```

Problems Javadoc Declaration Console × Progress TestNG Debug Eclipse IDE for Java Developers 2025-06 Release
<terminated> HandleAlert [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe (11
Aug 11, 2025 11:52:25 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 11:52:25 AM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on a
Alert message: Do you really want to delete this Customer?
Second alert: Customer Successfully Delete!

```

10] W.A.J. Script To find the total hyperlink from this web page

<http://demo.guru99.com/test/web-table-element.php>

```

package Assignment.Script;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

import java.util.List;

public class CountHyperLink {
    public static void main(String[] args) {

        // Set ChromeDriver path

        System.setProperty("webdriver.chrome.driver", "C:\\Users\\pursh\\ecli
pse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\
\\chromedriver_137.exe");

        WebDriver driver = new ChromeDriver();

        // Open the webpage

```

```

        driver.get("http://demo.guru99.com/test/web-table-
element.php");

        // Maximize the window
        driver.manage().window().maximize();

        // Find all hyperlink elements
        List<WebElement> links =
driver.findElements(By.tagName("a"));

        // Print the total number of links
        System.out.println("Total number of hyperlinks on the page:
" + links.size());

        // Optional: Print each link text & URL
        for (WebElement link : links) {
            System.out.println(link.getText() + " - " +
link.getAttribute("href"));
        }

        // Close the browser
        //driver.quit();
    }
}

```

Output:

```
Problems @ Javadoc Declaration Console × Progress TestNG Debug Eclipse IDE for Java Develop
<terminated> CountHyperLink [Java Application] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.f
Aug 11, 2025 12:02:34 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 12:02:34 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to include a dependency on a specific version of the CDP
Total number of hyperlinks on the page: 88
- https://demo.guru99.com/
Demo Site - https://demo.guru99.com/
- https://guru99.live/4ljs1t
- https://guru99.live/4ljs1t
Selenium - https://demo.guru99.com/test/web-table-element.php#
- https://demo.guru99.com/test/flash-testing.html
- https://demo.guru99.com/test/radio.html
- https://demo.guru99.com/test/table.html
- https://demo.guru99.com/test/link.html
- https://demo.guru99.com/test/ajax.html
- https://demo.guru99.com/test/block.html
- https://demo.guru99.com/test/delete_customer.php
- https://demo.guru99.com/test/yahoo.html
- https://demo.guru99.com/test/tooltip.html
- https://demo.guru99.com/test/upload/
- https://demo.guru99.com/test/login.html
- https://demo.guru99.com/test/social-icon.html
- https://demo.guru99.com/test/autoit.html
- https://demo.guru99.com/test/facebook.html
- https://demo.guru99.com/test/guru99home/
- https://demo.guru99.com/test/guru99home/scrolling.html
- https://demo.guru99.com/test/image_upload/
- https://demo.guru99.com/test/cookie/selenium_aut.php
- https://demo.guru99.com/test/drag_drop.html
- https://demo.guru99.com/test/
Insurance Project - http://demo.guru99.com/insurance/v1/index.php
Agile Project - http://demo.guru99.com/Agile_Project/Ag1_V1/
Bank Project - https://demo.guru99.com/test/web-table-element.php#
- http://demo.guru99.com/V1/index.php
- http://demo.guru99.com/V2/index.php
- http://demo.guru99.com/v3/index.php
Security Project - http://demo.guru99.com/Security/SEC_V1/index.php
Telecom Project - http://demo.guru99.com/telecom/index.html
Payment Gateway Project - http://demo.guru99.com/payment-gateway/index.php
New Tours - http://demo.guru99.com/test/newtours/
SEO - https://demo.guru99.com/test/web-table-element.php#
- http://demo.guru99.com/seo/page-1.html
- http://demo.guru99.com/seo/page-2.html
- http://demo.guru99.com/seo/page-3.html
- http://demo.guru99.com/seo/page-4.html
- http://demo.guru99.com/seo/page-5.html
- http://demo.guru99.com/seo/page-6.html
NSE - https://demo.guru99.com/test/web-table-element.php#
Daily - https://demo.guru99.com/test/web-table-element.php#
Weekly - https://demo.guru99.com/test/web-table-element.php#
Monthly - https://demo.guru99.com/test/web-table-element.php#
Daily - https://demo.guru99.com/test/web-table-element.php#
Weekly - https://demo.guru99.com/test/web-table-element.php#
Monthly - https://demo.guru99.com/test/web-table-element.php#
All - https://demo.guru99.com/test/web-table-element.php#
Group B - https://demo.guru99.com/test/web-table-element.php#
Group M - https://demo.guru99.com/test/web-table-element.php#
Group T - https://demo.guru99.com/test/web-table-element.php#
Group MT - https://demo.guru99.com/test/web-table-element.php#
Group Z - https://demo.guru99.com/test/web-table-element.php#
Hind. Petrol - http://demo.guru99.com/
Nestle India - http://demo.guru99.com/
Navin Fluorine Inter - http://demo.guru99.com/
Chennai Petro. - http://demo.guru99.com/
Coffee Day Enterpris - http://demo.guru99.com/
Ajanta Pharma Lt - http://demo.guru99.com/
Bharat Electroni - http://demo.guru99.com/
Equitas Holdings Ltd - http://demo.guru99.com/
Mangalore Refine - http://demo.guru99.com/
Central Bank - http://demo.guru99.com/
Jet Airways - http://demo.guru99.com/
Bajaj Corp Ltd. - http://demo.guru99.com/
Capital First - http://demo.guru99.com/
Kajaria Ceramics - http://demo.guru99.com/
NIIT Technologies - http://demo.guru99.com/
Gujarat Narmada Vall - http://demo.guru99.com/
IDFC L - http://demo.guru99.com/
Navin Fluorine Inter - http://demo.guru99.com/
```

11] W.A. junit program to handled Assert class with all method to check its

pass or fail

```

package JunitTest;

import static org.testng.Assert.assertEquals;

import org.junit.After;
import org.junit.Before;
import org.junit.Test;

class Calculator{

    int add(int a, int b) {
        return (a+b);
    }

    int subtract(int a, int b) {
        return (a-b);
    }
}

public class CalculatorTest {

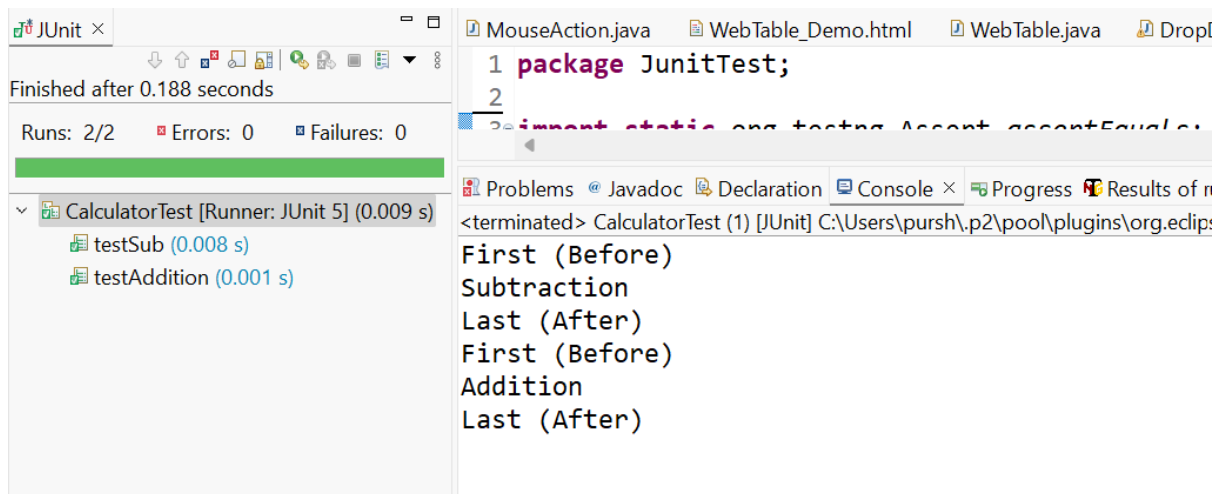
    @Before
    public void disp() {
        System.out.println("First (Before)");
    }
    @Test
    public void testAddition() {
        Calculator cal = new Calculator();
        int result = cal.add(2, 3);
        System.out.println("Addition");
        assertEquals(5,result,"Addition of 2 and 3 should be 5");
    }

    @Test
    public void testSub() {
        Calculator cal = new Calculator();
        int result = cal.subtract(5, 2);
        System.out.println("Subtraction");
        assertEquals(3,result, "Subtraction of 5 and 2 should be
3");
    }

    @After
    public void after() {
        System.out.println("Last (After)");
    }
}

```

Output:



12] W.A. junit program to perform test with webdriver to login process of facebook

```
package JunitAssignment;

import org.junit.After;
import org.junit.Before;
import org.junit.Test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import static org.junit.Assert.*;

public class FacebookLogin {
    WebDriver driver;

    @Before
    public void setUp() {
        // Set path to chromedriver
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\pursh\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\main\\java\\webdriver\\chromedriver_
137.exe");

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.facebook.com/");
    }

    @Test
    public void testFacebookLogin() throws InterruptedException {
        // Enter email/phone
        WebElement emailField = driver.findElement(By.id("email"));
        emailField.sendKeys("9081863115");
    }
}
```



```

// Enter password
WebElement passField = driver.findElement(By.id("pass"));
passField.sendKeys("Riddhi@123");

// Click login
driver.findElement(By.name("login")).click();

// Wait a bit for page load
Thread.sleep(3000);

// Example validation (Check URL or title)
String currentUrl = driver.getCurrentUrl();

// This is a simple example – in real cases, check for specific element
after login
    assertTrue("Login failed!", currentUrl.contains("facebook.com") &&
!currentUrl.contains("login"));

}

@After
public void tearDown() {
    //driver.quit();
}
}

```

Output:

The screenshot displays an IDE interface with the following components:

- Project Explorer:** Shows a package named 'FacebookLogin' containing a test class 'testFacebookLogin' which failed at 9.312 seconds.
- JUnit Runner:** Indicates 'Finished after 9.482 seconds' with 1 run, 0 errors, and 1 failure.
- Failure Trace:** Shows the error message: 'java.lang.AssertionError: Login failed!' at 'at org.junit.Assert.fail(Assert.java:89)' and 'at JUnitAssignment.FacebookLogin.testFacebookLogin(FacebookLogin.java:45)'.
- Console:** Displays the error message: '<terminated> FacebookLogin [JUnit] C:\Users\pursh\p2\pool\plugins' and two warnings: 'WARNING: Unable to find CDP implementation matching' and 'WARNING: Unable to find version of CDP to use for'.
- Source Editor:** Shows the code for 'WebTable.java' with lines 18, 19, and 20 visible, including 'System.setProperty("webdriver.chrome.c' and 'driver = new ChromeDriver();'.

13] W.A. junit program to check gmail login using with @before, @after, @Test

```
package JUnitAssignment;
```

```
import org.junit.After;
import org.junit.Before;
import org.junit.Test;
```

```

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class NewGmailJUnit {

    WebDriver driver;

    @Before
    public void setUp() {
        System.setProperty("webdriver.chrome.driver",
            "C:\\\\Users\\pursh\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\test\\java\\webdriver\\
\\chromedriver_137.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
    }

    @Test
    public void loginTest() throws InterruptedException {
        driver.get("https://medium.com/");
        Thread.sleep(3000);

        driver.findElement(By.xpath("//*[@id=\"root\"]/div/div[3]/div[1]/div
[1]/div/div/div/div[3]/div[4]/div/p/span/a")).click();
        Thread.sleep(1000);

        driver.findElement(By.xpath("/html/body/div[3]/div[2]/div/div/div/di
v[1]/div[1]/div/div/a[1]/div")).click();
        Thread.sleep(3000);

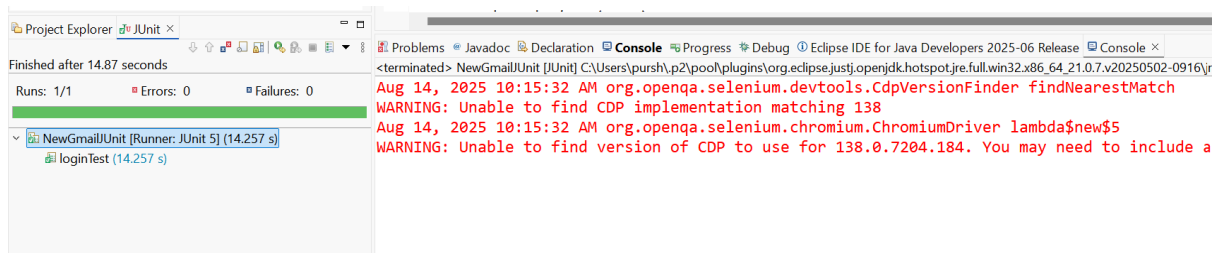
        driver.findElement(By.name("identifier")).sendKeys("lakhani123@gmail
.com");

        driver.findElement(By.xpath("//*[@id=\"identifierNext\"]/div/button/
span")).click();
    }

    @After
    public void tearDown() {
        // if (driver != null) {
        //     driver.quit();
        // }
    }
}

```

Output:



14] W.A. junit program to use parameterized demo with multiple parameter of Facebook login in junit.

```
package JunitAssignment;

import java.util.Arrays;
import java.util.Collection;
import org.junit.*;
import org.junit.runner.RunWith;
import org.junit.runners.Parameterized;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

@RunWith(Parameterized.class)
public class ParametrizedFblogin {
    String email, pass;
    WebDriver driver;

    // Constructor for parameters
    public ParametrizedFblogin(String email, String pass) {
        this.email = email;
        this.pass = pass;
    }

    // Test data
    @Parameterized.Parameters
    public static Collection<Object[]> data() {
        return Arrays.asList(new Object[][] {
            {"Riddhi@gmail.com", "pass1"},
            {"Lakhani@gmail.com", "pass2"}
        });
    }

    @Before
    public void setUp() {
```



```

import org.testng.Assert;
import org.testng.annotations.*;
import java.util.concurrent.TimeUnit;

public class FaceBookLogin {

    WebDriver driver;

    @BeforeTest
    public void setUp() {

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pursh
\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\test\\java\\webdriver\\
\\chromedriver_137.exe");
        driver = new ChromeDriver();
        driver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);
        driver.manage().window().maximize();
    }

    @Test

    public void loginToFacebook() {
        driver.get("https://www.facebook.com/");

        WebElement emailField = driver.findElement(By.id("email"));
        emailField.clear();
        emailField.sendKeys("riddhi@gmail.com");

        WebElement passwordField =
driver.findElement(By.id("pass"));
        passwordField.clear();
        passwordField.sendKeys("Riddhi@123");

        driver.findElement(By.name("login")).click();

        // Validate that login page or homepage loaded
        String pageTitle = driver.getTitle();
        Assert.assertTrue(pageTitle.contains("Facebook") ||
pageTitle.contains("Log in"), "Login was not successful!");
    }

    @AfterTest
    public void tearDown() {
        //driver.quit();
    }
}

```

Output:

```
Problems @ Javadoc Declaration Console × Progress Results of running class FaceBookLogin Debug Eclipse IDE for J
<terminated> FaceBookLogin [TestNG] C:\Users\pursh\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v202
[RemoteTestNG] detected TestNG version 7.4.0
Aug 11, 2025 8:44:45 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMat
WARNING: Unable to find CDP implementation matching 138
Aug 11, 2025 8:44:45 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 138.0.7204.184. You may need to in
PASSED: loginToFacebook

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```

16] W.A. TestNG program to check gmail login using with

@beforetest,@aftertest,@Test

```
package TestNGAssignments;
```

```
import org.junit.After;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.annotations.*;
```

```
import java.time.Duration;
```

```
public class NewGmail {
```

```
    WebDriver driver;
    WebDriverWait wait;
```

```
    @BeforeTest
```

```
    public void setUp() {
```

```

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pursh
\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\test\\java\\webdriver\\
\\chromedriver_137.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        wait = new WebDriverWait(driver, Duration.ofSeconds(10));
    }

    @Test

    public void loginTest() throws InterruptedException {
        driver.get("https://medium.com/");
        Thread.sleep(3000);

        driver.findElement(By.xpath("//*[@id=\"root\"]/div/div[3]/div[1]/div
[1]/div/div/div/div[3]/div[4]/div/p/span/a")).click();
        Thread.sleep(1000);

        driver.findElement(By.xpath("/html/body/div[3]/div[2]/div/div/div/di
v[1]/div[1]/div/div/a[1]/div")).click();
        Thread.sleep(3000);

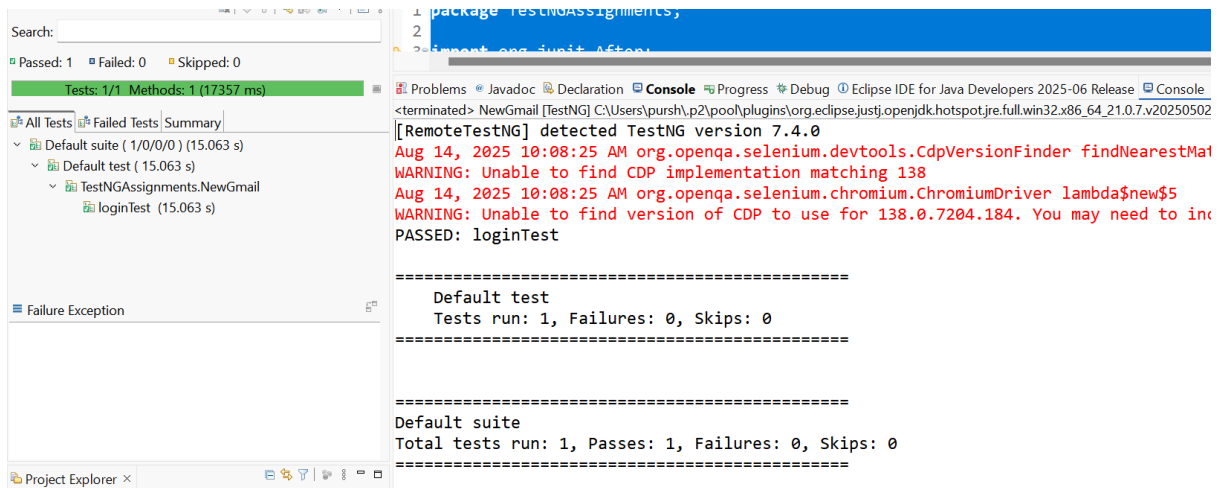
        driver.findElement(By.name("identifier")).sendKeys("lakhani123@gmail
.com");

        driver.findElement(By.xpath("//*[@id=\"identifierNext\"]/div/button/
span")).click();
    }

    @AfterTest
    public void tearDown() {
        //         if (driver != null) {
        //             driver.quit();
        //         }
    }
}

```

Output:



17] W.A. TestNG program to use parameterized demo with multiple parameter of Facebook login with TestNG.

```

package TestNGAssignments;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.*;

public class FBloginParametrized {

    WebDriver driver;

    @BeforeMethod
    public void setUp() {

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pursh
\\eclipse-
workspace\\SeleniumWebDriverAssignments\\src\\test\\java\\webdriver\\
\\chromedriver_137.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.facebook.com/");
    }

    @DataProvider(name = "fbData")
    public Object[][] getData() {

```



```

        return new Object[][] {
            {"Riddhi@gmail.com", "pass1"},
            {"Lakhani@gmail.com", "pass2"}
        };
    }

    @Test(dataProvider = "fbData")

    public void loginTest(String username, String password) {
        driver.findElement(By.id("email")).sendKeys(username);
        driver.findElement(By.id("pass")).sendKeys(password);
        driver.findElement(By.name("login")).click();
    }

    @AfterMethod
    public void tearDown() {
        //driver.quit();
    }
}

```

Output:

The screenshot displays the Eclipse IDE interface during a TestNG test run. The left-hand pane, titled 'Results of running class FBloginParametrized', shows a tree view of the test execution. It indicates that 2 tests passed, 0 failed, and 0 were skipped, with a total time of 8316 ms. The test suite 'Default suite (2/0/0/0) (1.125 s)' contains a 'Default test (1.125 s)' which in turn contains 'TestNGAssignments.FBloginParametrized'. This class has two 'loginTest' methods, each passing with a duration of approximately 0.52 s and 0.605 s respectively, using the data points 'Riddhi@gmail.com', 'pass1' and 'Lakhani@gmail.com', 'pass2'.

The right-hand pane shows the console output. It begins with a warning from RemoteTestNG about detecting TestNG version 7.4.0. Subsequent warnings from Selenium indicate an inability to find a matching CDP implementation for ChromeDriver version 138.0.7204.184. Despite these warnings, the test execution proceeds successfully, with two 'PASSED' messages for the 'loginTest' methods. The output concludes with a summary for the 'Default test' (1 test run, 0 failures, 0 skips) and the 'Default suite' (2 tests run, 2 passes, 0 failures, 0 skips).

18] W.A. TestNG program to create group with testing.xml file

I] LoginTest class

```

package TestNGAssignments;

import org.testng.annotations.Optional;
import org.testng.annotations.Parameters;

```

```

import org.testng.annotations.Test;

public class LoginTest {
    @Test

    public void testValidLogin() {
        System.out.println("Executing testValidLogin");
        // Add actual login logic here
    }

    @Test

    public void testInvalidLoginWithEmptyPassword() {
        System.out.println("Executing
testInvalidLoginWithEmptyPassword");
        // Add actual login logic here
    }

    @Test
    @Parameters({"username", "password"})

    public void
testLoginWithParameters(@Optional("default_username")
        String username,@Optional("default_password") String password)
    {
        System.out.println("Executing testLoginWithParameters
with username: " + username + " and password: " + password);
        // Add actual login logic here using parameters
    }
}

```

II] ProductDetailsTest class

```

package TestNGAssignments;

import org.testng.annotations.Test;

public class ProductDetailsTest {
    @Test

    public void testViewProductDetails() {
        System.out.println("Executing testViewProductDetails");
        // Add actual product details viewing logic
    }
}

```

III] ProductSearchTest class

```
package TestNGAssignments;

import org.testng.annotations.Test;

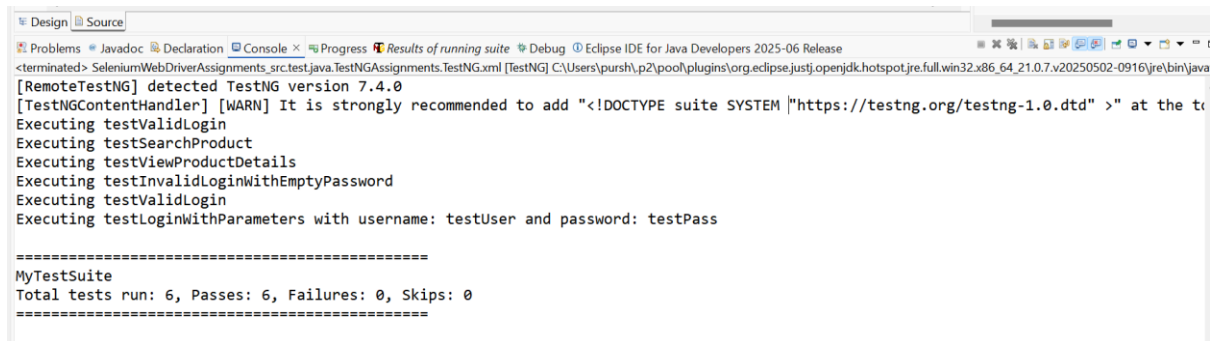
public class ProductSearchTest {
    @Test

    public void testSearchProduct() {
        System.out.println("Executing testSearchProduct");
        // Add actual product search logic
    }
}
```

→ TestNG.XML file

```
<suite name="MyTestSuite" parallel="methods" thread-count="2">
    <test name="LoginTests">
        <classes>
            <class name="TestNGAssignments.LoginTest">
                <methods>
                    <include name="testValidLogin" />
                    <exclude
name="testInvalidLoginWithEmptyPassword" />
                </methods>
            </class>
        </classes>
    </test>
    <test name="ProductTests">
        <classes>
            <class name="TestNGAssignments.ProductSearchTest" />
            <class name="TestNGAssignments.ProductDetailsTest"/>
        </classes>
    </test>
    <test name="ParameterizedLoginTest">
        <parameter name="username" value="testUser" />
        <parameter name="password" value="testPass" />
        <classes>
            <class name="TestNGAssignments.LoginTest" />
        </classes>
    </test>
</suite>
```

Output:



```
Design Source
Problems Javadoc Declaration Console Progress Results of running suite Debug Eclipse IDE for Java Developers 2025-06 Release
<terminated> SeleniumWebDriverAssignments_src.test.java.TestNGAssignments.TestNG.xml [TestNG] C:\Users\purshe\p2\pool\plugins\org.eclipse.justjopenjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\java
[RemoteTestNG] detected TestNG version 7.4.0
[TestNGContentHandler] [WARN] It is strongly recommended to add "<!DOCTYPE suite SYSTEM 'https://testng.org/testng-1.0.dtd' >" at the top of the suite XML file.
Executing testValidLogin
Executing testSearchProduct
Executing testViewProductDetails
Executing testInvalidLoginWithEmptyPassword
Executing testValidLogin
Executing testLoginWithParameters with username: testUser and password: testPass

=====
MyTestSuite
Total tests run: 6, Passes: 6, Failures: 0, Skips: 0
=====
```

19] W.A. TestNG program to create dataprovider.

```
package TestNGAssignments;

import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;

public class DataProviderExample {

    @DataProvider(name= "loginData")
    public Object[][] provideLoginData(){
        return new Object[][] {
            {"user1", "pass1"},
            {"user2", "pass2"},
            {"user3", "pass3"}
        };
    }

    @Test(dataProvider = "loginData")

    public void testLogin(String username, String password) {
        System.out.println("Testing login with username: "+
username + " and password: " + password);
        // Add your actual login test logic here
    }
}
```

Output:

Problems @ Javadoc Declaration Console × Progress Results of running class DataProviderExam
<terminated> DataProviderExample [TestNG] C:\Users\pursh\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot

[RemoteTestNG] detected TestNG version 7.4.0

Testing login with username: user1 and password: pass1

Testing login with username: user2 and password: pass2

Testing login with username: user3 and password: pass3

PASSED: testLogin("user1", "pass1")

PASSED: testLogin("user2", "pass2")

PASSED: testLogin("user3", "pass3")

=====

Default test

Tests run: 1, Failures: 0, Skips: 0

=====

=====

Default suite

Total tests run: 3, Passes: 3, Failures: 0, Skips: 0

=====